

Ming Liu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

2,011
citations

20
h-index

44
g-index

64
ext. papers

2,562
ext. citations

7.8
avg, IF

5.35
L-index

#	Paper	IF	Citations
57	Review on storage materials and thermal performance enhancement techniques for high temperature phase change thermal storage systems. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 2118-2132	16.2	524
56	Review on concentrating solar power plants and new developments in high temperature thermal energy storage technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 53, 1411-1432	16.2	523
55	Development of a novel refrigeration system for refrigerated trucks incorporating phase change material. <i>Applied Energy</i> , 2012 , 92, 336-342	10.7	112
54	Eutectic Na ₂ CO ₃ /NaCl salt: A new phase change material for high temperature thermal storage. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 152, 155-160	6.4	70
53	Determination of thermo-physical properties and stability testing of high-temperature phase-change materials for CSP applications. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 139, 81-87	6.4	69
52	Review on transportable phase change material in thermal energy storage systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 75, 264-277	16.2	60
51	Validation of a mathematical model for encapsulated phase change material flat slabs for cooling applications. <i>Applied Thermal Engineering</i> , 2011 , 31, 2340-2347	5.8	51
50	Optimising PCM thermal storage systems for maximum energy storage effectiveness. <i>Solar Energy</i> , 2012 , 86, 2263-2272	6.8	47
49	Numerical study of melting performance enhancement for PCM in an annular enclosure with internal-external fins and metal foams. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 150, 119348	4.9	45
48	Impact of the heat transfer fluid in a flat plate phase change thermal storage unit for concentrated solar tower plants. <i>Solar Energy</i> , 2014 , 101, 220-231	6.8	44
47	Investigation of the effect of dynamic melting in a tube-in-tank PCM system using a CFD model. <i>Applied Energy</i> , 2015 , 137, 738-747	10.7	42
46	A eutectic salt high temperature phase change material: Thermal stability and corrosion of SS316 with respect to thermal cycling. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 170, 1-7	6.4	36
45	Review on the development of high temperature phase change material composites for solar thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 203, 110164	6.4	32
44	A review of numerical modelling of high-temperature phase change material composites for solar thermal energy storage. <i>Journal of Energy Storage</i> , 2020 , 29, 101378	7.8	28
43	Thermal performance analysis of a flat slab phase change thermal storage unit with liquid-based heat transfer fluid for cooling applications. <i>Solar Energy</i> , 2011 , 85, 3017-3027	6.8	28
42	Effective tube-in-tank PCM thermal storage for CSP applications, Part 1: Impact of tube configuration on discharging effectiveness. <i>Solar Energy</i> , 2016 , 139, 733-743	6.8	23
41	Computer simulation with TRNSYS for a mobile refrigeration system incorporating a phase change thermal storage unit. <i>Applied Energy</i> , 2014 , 132, 226-235	10.7	23

40	Investigation of Cascaded Shell and Tube Latent Heat Storage Systems for Solar Tower Power Plants. <i>Energy Procedia</i> , 2015 , 69, 913-924	2.3	22
39	Using renewables coupled with thermal energy storage to reduce natural gas consumption in higher temperature commercial/industrial applications. <i>Renewable Energy</i> , 2019 , 131, 1035-1046	8.1	21
38	Numerical investigation of phase change material thermal storage for space cooling. <i>Applied Energy</i> , 2019 , 239, 526-535	10.7	20
37	Computational efficiency in numerical modeling of high temperature latent heat storage: Comparison of selected software tools based on experimental data. <i>Applied Energy</i> , 2016 , 161, 337-348	10.7	19
36	Design of sensible and latent heat thermal energy storage systems for concentrated solar power plants: Thermal performance analysis. <i>Renewable Energy</i> , 2020 , 151, 1286-1297	8.1	19
35	Characterisation of promising phase change materials for high temperature thermal energy storage. <i>Journal of Energy Storage</i> , 2019 , 24, 100801	7.8	17
34	Novel solid-solid phase-change cascade systems for high-temperature thermal energy storage. <i>Solar Energy</i> , 2019 , 177, 274-283	6.8	16
33	Influence of cascaded graphite foams on thermal performance of high temperature phase change material storage systems. <i>Applied Thermal Engineering</i> , 2020 , 180, 115618	5.8	14
32	Effective tube-in-tank PCM thermal storage for CSP applications, Part 2: Parametric assessment and impact of latent fraction. <i>Solar Energy</i> , 2016 , 139, 744-756	6.8	12
31	Simulations of melting performance enhancement for a PCM embedded in metal periodic structures. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 168, 120853	4.9	12
30	Experimental investigation of specific heat capacity improvement of a binary nitrate salt by addition of nanoparticles/microparticles. <i>Journal of Energy Storage</i> , 2019 , 22, 137-143	7.8	12
29	Corrosion of AISI316 as containment material for latent heat thermal energy storage systems based on carbonates. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 186, 1-8	6.4	8
28	Phase change behaviour study of PCM tanks partially filled with graphite foam. <i>Applied Thermal Engineering</i> , 2021 , 196, 117313	5.8	8
27	Techno-economic analysis on the design of sensible and latent heat thermal energy storage systems for concentrated solar power plants. <i>Renewable Energy</i> , 2021 , 178, 443-455	8.1	8
26	Investigation into the behaviour of aluminium and steel under melt/freeze cyclic conditions. <i>Journal of Energy Storage</i> , 2018 , 17, 249-260	7.8	6
25	A comprehensive study on a novel transcritical CO ₂ heat pump for simultaneous space heating and cooling [Concepts and initial performance. <i>Energy Conversion and Management</i> , 2021 , 243, 114397	10.6	5
24	Review and characterisation of high-temperature phase change material candidates between 500 C and 700°C. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 150, 111528	16.2	5
23	Modified T-history method for measuring thermophysical properties of phase change materials at high temperature 2017 ,		4

22	Thermo-economic assessments of pumped-thermal electricity storage systems employing sensible heat storage materials. <i>Renewable Energy</i> , 2022 , 186, 431-456	8.1	4
21	Investigation of the effect of thermal resistance on the performance of phase change materials. <i>International Journal of Thermal Sciences</i> , 2021 , 164, 106852	4.1	4
20	Assessment of exergy delivery of thermal energy storage systems for CSP plants: Cascade PCMs, graphite-PCMs and two-tank sensible heat storage systems. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 42, 100823	4.7	3
19	Materials for Phase Change Material at High Temperature 2018 , 195-230		2
18	SELECTION OF THE MELTING TEMPERATURE OF PHASE CHANGE MATERIALS CONSIDERING LOCAL CLIMATE 2017 ,		2
17	Technoeconomic Impacts of Storage System Design on the Viability of Concentrated Solar Power Plants. <i>Journal of Energy Storage</i> , 2021 , 34, 101987	7.8	2
16	Stability and corrosion testing of a high temperature phase change material for CSP applications 2016 ,		1
15	Investigation of lithium sulphate for high temperature thermal energy storage 2017 ,		1
14	Review of analytical studies of melting rate enhancement with fin and/or foam inserts. <i>Applied Thermal Engineering</i> , 2022 , 207, 118154	5.8	1
13	A new methodology for designing and assessing latent heat thermal energy storage systems 2020 ,		1
12	Corrosion interface formation in thermally cycled stainless steel 316 with high-temperature phase change material. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 225, 111062	6.4	1
11	Dynamic Concept at University of South Australia 2018 , 39-92		1
10	Chemical degradation in Thermally Cycled Stainless Steel 316 with High-Temperature Phase Change Material. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 230, 111216	6.4	1
9	A review of high temperature (500°C) latent heat thermal energy storage. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 160, 112293	16.2	1
8	An optimisation study on a real-world transcritical CO ₂ heat pump system with a flash gas bypass. <i>Energy Conversion and Management</i> , 2021 , 251, 114995	10.6	0
7	Mathematical modelling of heat transmission in the temperature history apparatus by using inverse method to evaluate the latent heat of high temperature PCMs. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 167, 120825	4.9	0
6	Solid-liquid phase change materials for thermal energy storage 2021 , 221-268		0
5	A novel, low-cost and robust method for determining molten salt density at high temperatures. <i>Journal of Energy Storage</i> , 2021 , 41, 102935	7.8	0

- 4 Investigating the effect of interstage pressure on cooling performance of a real-world CO2 heat pump system. *IOP Conference Series: Earth and Environmental Science*, **2022**, 983, 012077 0.3 0
- 3 Static Concept at University of South Australia **2018**, 157-191
- 2 Thermal Performance Of A Pcm Thermal Storage Unit **2008**, 2766-2771
- 1 Orientation impact on structural integrity of a shell and tube latent heat thermal energy storage system. *Journal of Energy Storage*, **2022**, 52, 104829 7.8